BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate for Improvements to Durga Layout Main Road and Cross Road Ward No. 09, Vidyaranyapura Sub Division.

						Estimate Cost:		1500000.00
Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 150/ Item No. 19.1/ PWD SR 2012-13**	Cum							
Desilting of Drains								
1st Main Road		2	185.00	0.45	0.30	49.95	✓	
2nd Main Road		2	220.00	0.45	0.30	59.40	✓	
1st Cross Road		2	95.00	0.45	0.30	25.65	✓	
1st Interrior Cross Road		2	45.00	0.45	0.30	12.15	✓	
2nd Interrior Corss Road		2	25.00	0.45	0.30	6.75	✓	
2nd Cross Road		2	106.00	0.45	0.30	28.62	✓	
3rd Cross Road		2	157.00	0.45	0.30	42.39	✓	
Berm Cutting								
1st Main Road		2	185.00	1.00	0.20	74.00	✓	
2nd Main Road		2	220.00	1.00	0.20	88.00	✓	
1st Cross Road		2	95.00	1.00	0.20	38.00	✓	
1st Interrior Cross Road		2	45.00	1.00	0.20	18.00	✓	
2nd Interrior Corss Road		2	25.00	1.00	0.20	10.00	✓	
2nd Cross Road		2	106.00	1.00	0.20	42.40	✓	
3rd Cross Road		2	157.00	1.00	0.20	62.80	✓	
Earthwork for Culverts		2	4.50	1.80	1.05	17.01	✓	✓
	✓					**575.12**	58.32	**33541.0**
Basic Rate	54.00	✓						
Area Weightage @8%	4.32	✓						
Total	**58.32**	✓						
Removing B.S. Slab Drain and stacking **(P.28/I.5.32 PWD SR - 2012-13)**	Sqm							
		2	80.00		1.35	216.00	✓	
		2	90.00		1.35	243.00	✓	
		2	40.00		1.35	108.00	✓	
		2	25.00		1.35	67.50	✓	
		2	10.00		1.35	27.00	✓	✓
	✓					**661.50**	44.47	(29420.0
								29417
Basic Rate	41.18	✓						
Area Weightage @8%	3.29	✓						
Total	**44.47**	✓						
Refixing stone slabs of drains and pointing in CM (1:3) **(P.28/I.5.33 PWD SR - 2012-13)**	Sqm					✓	✓	4167
		Vide Item No.2				**661.50**	63.00	(41672.0
Basic Rate	58.33							

1041633

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Area Weightage @ 8%	4.67							
Total	**63.00**							
KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2012-13**	Cum							
Bottom Concrete		2	4.50	1.80	0.15	2.43		
						2.43	3812.82	**9265.00**
Basic Rate	3597.00							
Area Weightage @ 6%	215.82							
Total	**3812.82**							
KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **PWD SR 2012-13 (P.25/I.5.6)**	Cum							
		2x2	4.50	0.60	0.90	9.72		
						9.72	2710.42	**26345.00**
Basic Rate	2557.00							
Area Weightage @ 6%	153.42							
Total	**2710.42**							
KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 120/ Item No. 15.3 / PWD SR 2012-13**	Sqm							
		4	4.50		0.90	16.20		
						16.20	70.28	**1139.00**
Basic Rate	66.30							
Area Weightage @ 6%	3.98							
Total	**70.28**							
KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2012-13**	Cum							

36749

Description	Unit	No.	L	B	D	Qty	Rate	Amount
		2x2	4.50	0.60	0.10	1.08		
						1.08	4327.98	**4674.00**
Basic Rate	4083.00							
Area Weightage @ 6%	244.98							
Total	**4327.98**							
KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13/ ITem No. 4.11 PWD SR - 2012-13**	Cum							
~~Plinth to Roof~~ Slab		2	0.45	1.80	0.23	0.37		
						0.37	5142.06	**1916.00**
Basic Rate	4851.00							
Area Weightage @ 6%	291.06							
Total	**5142.06**							
KSRB 4.9.1: Providing **mild steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.45 PWD SR 2012-13**	Qntl							
~~For Roof~~, Columns @ 90 Kg / Cum		0.90	0.37			0.34		2560·8
						0.34	7690.30	**2579.00**
Basic Rate	7255.00							
Area Weightage @ 6%	435.30							
Total	**7690.30**							

9150·8

Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSR[illegible]4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2012-13**	Sqm							
Thindlu Mariyamma Colony		2	4.50	0.60		5.40		
		2x2	1.80		0.25	1.80		
		2x2	4.50		0.25	4.50		
						11.70	244.08	**2856.00**
Basic Rate	226.00							
Area Weightage @ 8%	18.08							
Total	**244.08**							
KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet/surface dressing and stacking of old serviceable materials within a lead of 100 meters by manual means including cost of all labour charges complete as per specifications. MORTH chapter 3, **No. 156 / Item No. 19.51/ PWD SR 2012-13**	Sqm							
1st Interrior Cross Road		1	45.00	4.00		180.00		
2nd Interrior Corss Road		1	25.00	4.00		100.00		
						280.00	35.91	**10055.00**
Basic Rate	33.25							
Area Weightage @ 8%	2.66							
Total	**35.91**							
Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P.167/I.20.18) PWD SR - 2012-13.**	Cum							
1st Main Road		2	185.00	0.50	0.15	27.75		
2nd Main Road		2	220.00	0.50	0.15	33.00		
1st Cross Road		1	95.00	0.50	0.15	7.13		
1st Interrior Cross Road		1	45.00	4.00	0.15	27.00		
2nd Interrior Corss Road		1	25.00	4.00	0.15	15.00		
2nd Cross Road		2	106.00	0.50	0.15	15.90		
3rd Cross Road		2	157.00	0.50	0.15	23.55		
						149.33	1059.48	**158207.00**
Basic Rate	981.00							158212.
Area Weightage @ 8%	78.48							
Total	**1059.48**							

171123

Description	Unit	No.	L	B	D	Qty	Rate	Amount
SRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and sm. / picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.172 / 21.1) PWDSR 2012-13**	Sqm							
st Main Road		1	185.00	5.00		925.00		
nd Main Road		1	220.00	5.00		1100.00		
st Cross Road		1	95.00	4.50		427.50		
st Interrior Cross Road		1	45.00	4.00		180.00		
nd Interrior Corss Road		1	25.00	4.00		100.00		
nd Cross Road		1	106.00	5.00		530.00		
rd Cross Road		1	157.00	5.00		785.00		
						4047.50	9.29	**37593.00**
Basic Rate	8.60							37601
Area Weightage @ 8%	0.69							
Total	**9.29**							
SRRB M500-6: Providing and applying primer oat with bitumen emulsion on prepared surface granular base including clearing of road surface nd spraying primer at the rate of 0.60 kg / sqm sing mechanical means complete as per ecifications. MORTH specification NO. 502, **age No. 172/ Item No. 21.6/ PWD SR 2012-13**	Sqm							
		Qty Vide Item No (4)				4047.50		
						4047.50	39.64	**160427.00**
Basic Rate	36.70							160443
Area Weightage @ 8%	2.94							
Total	**39.64**							
SRRB M500-18: Providing and laying **semi ense bituminous concrete** 25mm thick with 0-120 TPH batch type HMP producing an verage output of 75 tonnes per hour using ushed aggregates of specified grading, emixed with bituminous binder at 4.5 to 5% of x and filler, transporting the hot mix to work site, ying with a hydrostatic paver finisher with sensor ntrol to the required grade, level and alignment, lling with smooth wheeled, vibratory and tandem ller to achieve the desired compaction as per ORTH specifications clause No. 500.8 complete all respects as per specifications. **With 80/100 ade bitumen, No. 175/ Item No. 21.20.1/ PWD R 2012-13**	Cum							
		1	185.00	5.00	0.025	23.13		
		1	220.00	5.00	0.025	27.50		

198041

Description	Unit	No.	L	B	D	Qty	Rate	Amount
		ADMINISTRATIVELY SANCTIONED FOR Rs. Rupees Fifteen lakh only						
		1	95.00	4.50	0.025	10.69		
		1	45.00	4.00	0.025	4.50		
		1 Under	25.00	4.00	0.025	2.50	POW 2012-13	
		1	106.00	5.00	0.025	13.25	P-177	
		1	157.00	5.00	0.025	19.63		
		Registered as EE ( ) No.				101.19		
Consider 5% for Depress Filling and Camber		Subject to conditions contained in enclosed memo EE(BTP) No.				5.06		
						106.25	8829.00	938054.00
Basic Rate	8175.00	Dt 7.1.13				Estimate Administered		93808
Area Weightage @ 8%	654.00	JC Alt				773/7.1.13		
Total	**8829.00**	dated 7.1.13				15.000 lakh		
Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum					Joint Commissioner (Yelahanka Zone)		
		Vide Item No. 1 SBMP Bengaluru				72.92		41814.00
Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								41817
Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12	✓						
Add loading and unloading Vide item no.17.1 P.no.141	62.20	✓						
	67.32	✓						
Area Weightage @ 8%	5.39	✓						
Total	72.71	✓						
								402.
Miscellaneous and other Charges	L/S							443.00
						Total		1500000.00

Technical Sanction for Rs. 15.000 lakh
Fifteen lakh only
POW-2012-13
P-177
(Rs. Fifteen Lakhs Only)
registered as EE No: 3WO/12-13 Subject to conditions contained enclosed memo.
No: 3WO /12-13 Dt. 10.1.13
AE/JE
EE (BTP. Div.)

TIFICATE:

he work spot has been inspected and the work is found necessary.
his estimate is prepared as per P.W.D S.R of 2012-13.
his work included under 2012-13 POW Grant.
he provisions were made in this estimate are necessary and adequate.
his works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

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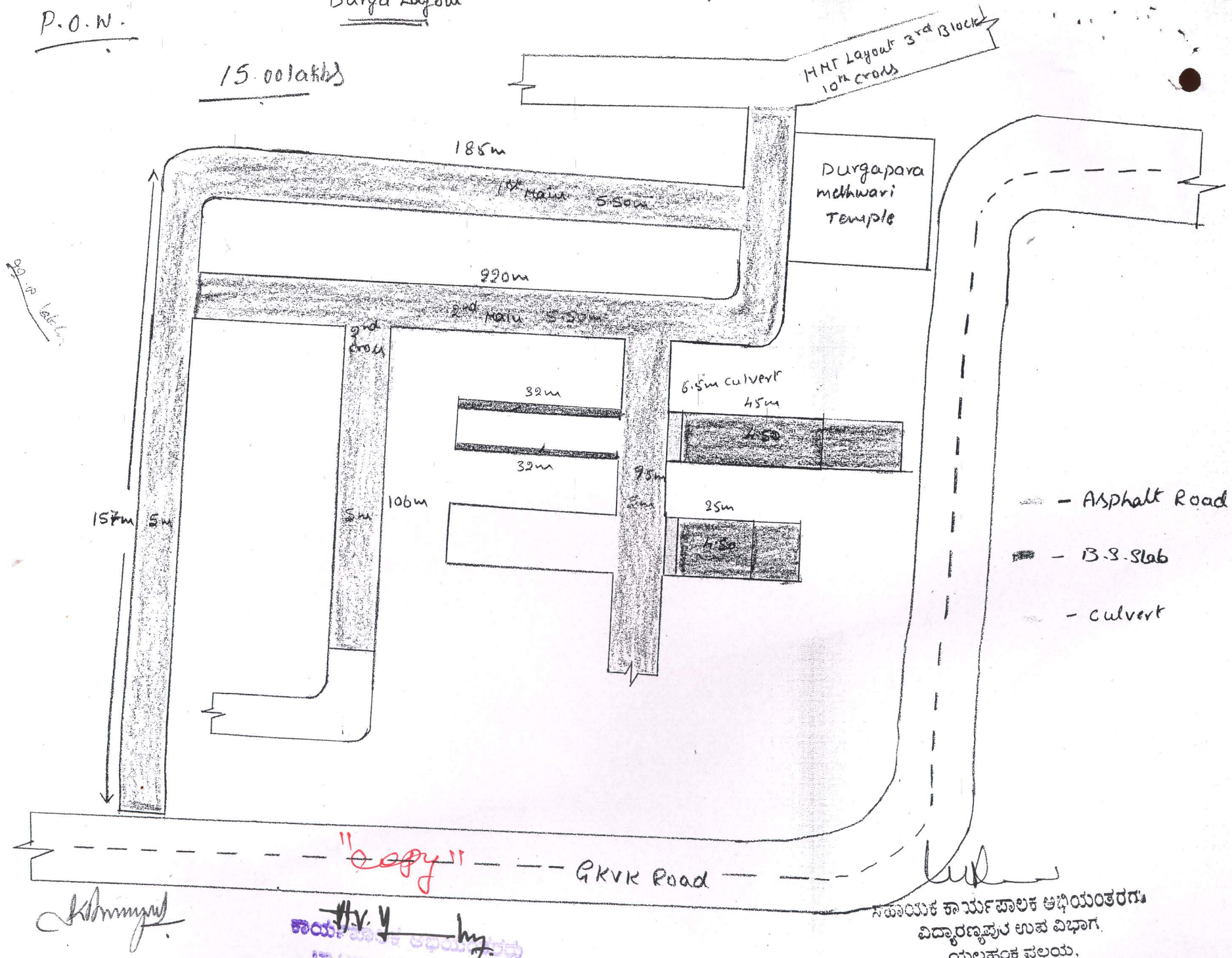
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

P.O.W.

Durga Layout

15.00 lakhs



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ಯಲಹಂಕ ಪಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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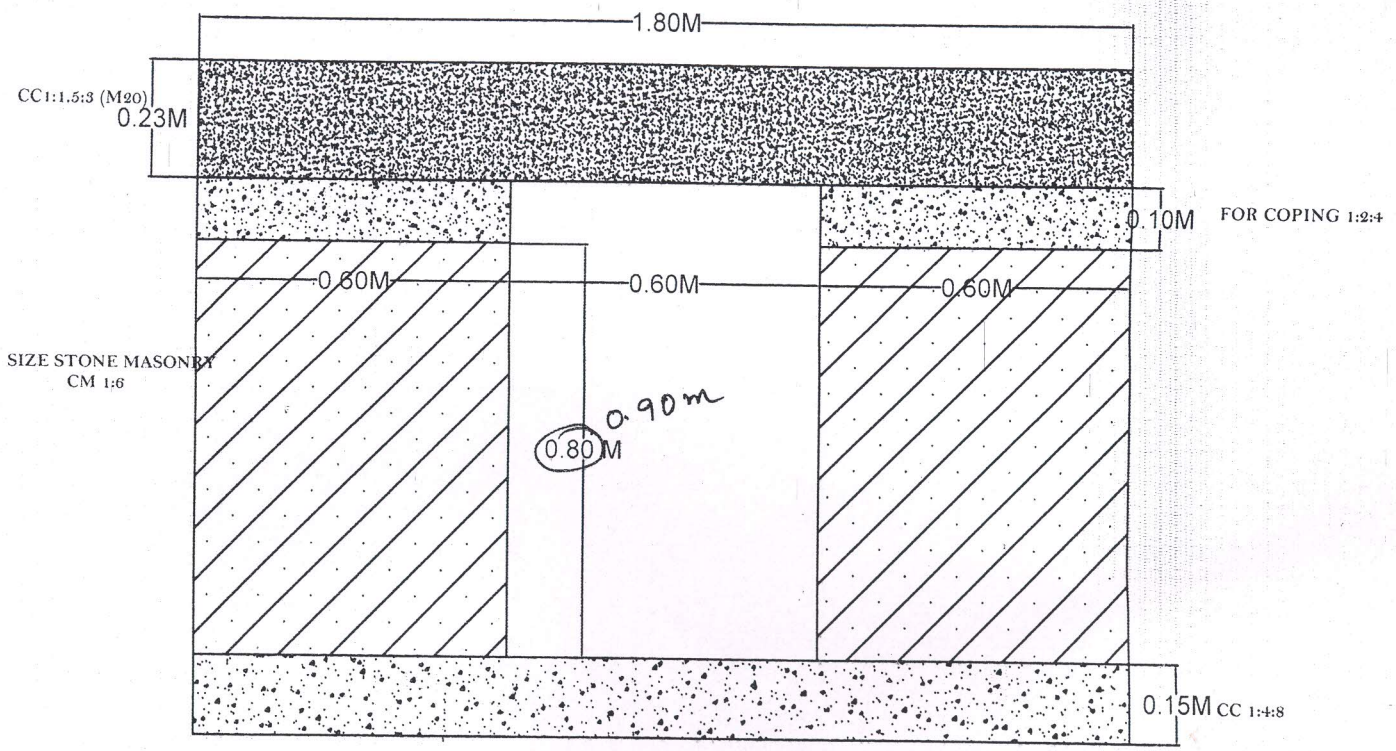

CROSS-SECTION OF CULVERT

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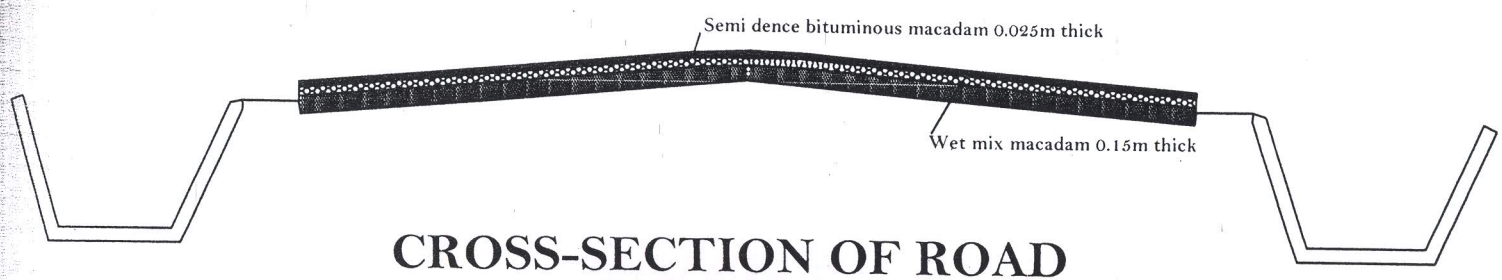
VIDYARANYAPURA SUB DIVISION.

NAME OF WORK:-



CROSS-SECTION OF ROAD

INDEX

- Wet mix macadam
- Semi dence bituminous concret

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